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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/774,723	02/01/2001	Takenori Hirose	Н-961	3383
24956 75	590 08/01/2003	•		
MATTINGLY, STANGER & MALUR, P.C. 1800 DIAGONAL ROAD SUITE 370			EXAMINER	
			BALI, VIKKRAM	
ALEXANDRIA	A, VA 22314		ART UNIT PAPER NUMBER	
			2623	17
			DATE MAILED: 08/01/2003	[0

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	R		
Office Action Summary		09/774,723	HIROSE ET AL.	OF		
		Examiner	Art Unit			
		Vikkram Bali	2623			
Period f	The MAILING DATE of this communication apports or Reply	pears on the cover sheet with the o	correspondence address			
THE - External control	MORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl D period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from y, cause the application to become ABANDONE	nely filed  /s will be considered timely. It the mailing date of this communic CD (35 U.S.C. § 133).	∷ation.		
1)⊠	Responsive to communication(s) filed on 27 i	December 2002 .				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allows closed in accordance with the practice under			its is		
-	tion of Claims	•				
4)[	Claim(s) <u>1-25</u> is/are pending in the application.  4a) Of the above claim(s) <u>1,2,4,12,13,15 and 23-25</u> is/are withdrawn from consideration.					
5\□	Claim(s) is/are allowed.					
	Claim(s) <u>3,5-11,14 and 16-22</u> is/are rejected.					
-	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/o	or election requirement.				
•	ion Papers	•				
9) 🗌	The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acce	pted or b)⊡ objected to by the Exa	miner.			
	Applicant may not request that any objection to th		• •			
11)	The proposed drawing correction filed on		oved by the Examiner.			
_	If approved, corrected drawings are required in re	` •				
•	The oath or declaration is objected to by the Ex	caminer.				
Priority	under 35 U.S.C. §§ 119 and 120					
•	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).			
a)	⊠ All b) Some * c) None of:					
	1.⊠ Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
* ;	3.☐ Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_			
14) 🗌 /	Acknowledgment is made of a claim for domesti	ic priority under 35 U.S.C. § 119(	e) (to a provisional appli	cation).		
	a)					
Attachmer	nt(s)					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>9</u>	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)	·		
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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 3, 5-11, 14, 16-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Birang (US 5708506).

With respect to claim 5, Birang discloses the polishing pad evaluation removing the polishing fluid from the surface, illuminating the surface with the light, detecting the

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reflected light from the surface, evaluating the polishing pad, (see figure 2, and col. 5, lines 15-32, lines 62-64, and col. 6, lines 34-35). However, he fails to disclose imaging the surface and displaying the results on the display, as claimed. But, as disclose by the Birang in col. 5, lines 57-60, that the collector 40 generates a signal indicating the intensity of the scattered light detected, means that the image is observed by the system, and it is well known in the art on inspection to display the results once the results are attained by the inspection process on a display. Therefore, it would have been obvious to simply incorporate the obvious i.e. the imaging and the displaying of the results on the display in the Birang's system to come up with a system that compares the image and display the results on the display to make the system more user friendly.

With respect to claim 3, he further discloses the flowing gas onto the polishing pad, (see col. 6, lines 38-42) as claimed.

With respect to claim 6, the digitizing of the image is well known in the art and therefore it would have been obvious to one ordinary skilled in the art to digitized the image in order to get the batter results.

With respect to claim 7, he further discloses the area ration of the bi-level image, (see col. 9, line 63 to col. 10, line 5) as claimed.

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With respect to claim 8, he further discloses the conditioning means, (see col. 9, lines 20-28) as claimed.

Claims 9-11 is rejected for the same reasons as set forth in the rejection of claims 5-8, because claims 9-11 are claiming similar subject matter as claims 5-8. Also, the col. 6, lines 20-24, calls for any other light source and therefore it would have been obvious to one ordinary skilled in the art to use the fluorescence light source as this light source is so readily available.

Claims 14, 16-22 are rejected for the same reasons as set forth in the rejection of claims 3, 5-11, because claims 14, 16-22 are claiming similar subject matter as claimed in claims 3, 5-11.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vikkram Bali whose telephone number is 703.305.4510. The examiner can normally be reached on 7:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amelia Au can be reached on 703.308.6604. The fax phone numbers for the organization where this application or proceeding is assigned are 703.872.9314 for regular communications and 703.872.9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703.306.0377.

Vikkram Bali

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July 28, 2003